Sheet: 1 of: 2

FORM: PTO-1449 (REV: 7-80)

U.S. DEPARTMENT OF COMMERCE

PATENT AND TRADEMARK OFFICE

Atty Docket No: Serial No: 92-0466.04

Group:

Applicant:

David A. Cathey

Filing Date: 1/12/01

(37 CFR 1.98(b))

(use several sheets if necessary)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

			U.S. PATENT DOCUMENTS			
	Document					
	Number	Date	Name	Class	Subclass	800 E
AA	6,049,089	04/11/00	Cathey	257	010	n
AB	5,786,659	07/28/98	Takagi et al.	313	309	
AC	5,662,815	09/02/97	Kim	216	011	
AD	5,583,393	12/10/96	Jones	313	495	
AE	5,532,177	07/02/96	Cathey	437	40	
AF	5,469,014	11/21/95	Itoh et al.	313	308	
AG	5,431,777	07/11/95	Austin et al.	156	622.1	
AH	5,378,658	01/03/95	Toyoda et al.	437	228	
AI	5,372,973	12/13/94	Doan et al.	437	228	
AJ	5,358,908	10/25/94	Reinberg et al.	437	228	
AK	5,330,920	07/19/94	Soleimani et al.	437	24	
AL	5,315,126	05/24/94	Field	257	010	
AM	5,269,877	12/14/93	Bol	156	628	
AN	5,201,992	04/13/93	Marcus et al.	156	643	
AO	5,138,220	08/11/92	Kirkpatrick	313	309	
AP	5,090,932	02/25/92	Dieumegard et al.	445	24	
AQ	5,063,327	11/05/91	Brodie et al.	313	482	
AR	4,968,382	11/06/90	Jacobson et al.	156	643	1
AS	4,964,946	10/23/90	Gray et al.	156	643	1
	AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR	Number AA 6,049,089 AB 5,786,659 AC 5,662,815 AD 5,583,393 AE 5,532,177 AF 5,469,014 AG 5,431,777 AH 5,378,658 AI 5,372,973 AJ 5,358,908 AK 5,330,920 AL 5,315,126 AM 5,269,877 AN 5,201,992 AO 5,138,220 AP 5,090,932 AQ 5,063,327 AR 4,968,382	Number Date AA 6,049,089 04/11/00 AB 5,786,659 07/28/98 AC 5,662,815 09/02/97 AD 5,583,393 12/10/96 AE 5,532,177 07/02/96 AF 5,469,014 11/21/95 AG 5,431,777 07/11/95 AH 5,378,658 01/03/95 AI 5,372,973 12/13/94 AJ 5,358,908 10/25/94 AK 5,330,920 07/19/94 AL 5,315,126 05/24/94 AM 5,269,877 12/14/93 AN 5,201,992 04/13/93 AO 5,138,220 08/11/92 AP 5,090,932 02/25/92 AQ 5,063,327 11/05/91 AR 4,968,382 11/06/90	Document Number Date Name AA 6,049,089 04/11/00 Cathey AB 5,786,659 07/28/98 Takagi et al. AC 5,662,815 09/02/97 Kim AD 5,583,393 12/10/96 Jones AE 5,532,177 07/02/96 Cathey AF 5,469,014 11/21/95 Itoh et al. AG 5,431,777 07/11/95 Austin et al. AH 5,378,658 01/03/95 Toyoda et al. AI 5,372,973 12/13/94 Doan et al. AJ 5,358,908 10/25/94 Reinberg et al. AK 5,330,920 07/19/94 Soleimani et al. AL 5,315,126 05/24/94 Field AM 5,269,877 12/14/93 Bol AN 5,201,992 04/13/93 Marcus et al. AO 5,138,220 08/11/92 Kirkpatrick AP 5,090,932 02/25/92 Dieumegard et al. AR <td>Document Number Date Name Class AA 6,049,089 04/11/00 Cathey 257 AB 5,786,659 07/28/98 Takagi et al. 313 AC 5,662,815 09/02/97 Kim 216 AD 5,583,393 12/10/96 Jones 313 AE 5,532,177 07/02/96 Cathey 437 AF 5,469,014 11/21/95 Itoh et al. 313 AG 5,431,777 07/11/95 Austin et al. 156 AH 5,378,658 01/03/95 Toyoda et al. 437 AI 5,372,973 12/13/94 Doan et al. 437 AJ 5,358,908 10/25/94 Reinberg et al. 437 AK 5,330,920 07/19/94 Soleimani et al. 437 AL 5,315,126 05/24/94 Field 257 AM 5,269,877 12/14/93 Bol 156 AN 5,201,992 04/13/93</td> <td>Document Number Date Name Class Subclass AA 6,049,089 04/11/00 Cathey 257 010 AB 5,786,659 07/28/98 Takagi et al. 313 309 AC 5,662,815 09/02/97 Kim 216 011 AD 5,583,393 12/10/96 Jones 313 495 AE 5,532,177 07/02/96 Cathey 437 40 AF 5,469,014 11/21/95 Itoh et al. 313 308 AG 5,431,777 07/11/95 Austin et al. 156 622.1 AH 5,378,658 01/03/95 Toyoda et al. 437 228 AI 5,372,973 12/13/94 Doan et al. 437 228 AK 5,330,920 07/19/94 Soleimani et al. 437 24 AL 5,315,126 05/24/94 Field 257 010 AM 5,269,877 12/14/93 Bol 156</td>	Document Number Date Name Class AA 6,049,089 04/11/00 Cathey 257 AB 5,786,659 07/28/98 Takagi et al. 313 AC 5,662,815 09/02/97 Kim 216 AD 5,583,393 12/10/96 Jones 313 AE 5,532,177 07/02/96 Cathey 437 AF 5,469,014 11/21/95 Itoh et al. 313 AG 5,431,777 07/11/95 Austin et al. 156 AH 5,378,658 01/03/95 Toyoda et al. 437 AI 5,372,973 12/13/94 Doan et al. 437 AJ 5,358,908 10/25/94 Reinberg et al. 437 AK 5,330,920 07/19/94 Soleimani et al. 437 AL 5,315,126 05/24/94 Field 257 AM 5,269,877 12/14/93 Bol 156 AN 5,201,992 04/13/93	Document Number Date Name Class Subclass AA 6,049,089 04/11/00 Cathey 257 010 AB 5,786,659 07/28/98 Takagi et al. 313 309 AC 5,662,815 09/02/97 Kim 216 011 AD 5,583,393 12/10/96 Jones 313 495 AE 5,532,177 07/02/96 Cathey 437 40 AF 5,469,014 11/21/95 Itoh et al. 313 308 AG 5,431,777 07/11/95 Austin et al. 156 622.1 AH 5,378,658 01/03/95 Toyoda et al. 437 228 AI 5,372,973 12/13/94 Doan et al. 437 228 AK 5,330,920 07/19/94 Soleimani et al. 437 24 AL 5,315,126 05/24/94 Field 257 010 AM 5,269,877 12/14/93 Bol 156

FOREIGN PATENT DOCUMENTS

Examiner		Document					Trans	lation
Inițial		Number	Date	Country	Class	Subclass	Yes	No
A/H	CA	3-238729	10/24/91	Japan	H01J9	02		
)	CB	57-43412	03/11/82	Japan	H01L21	205		

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Ald	DA	Hunt, Charles E., Johann T. Trujillo, William J. Orvis, "Structure and Electrical Characteristics of Silicon Field-Emission Microelectronic Devices," IEEE Transactions on Electron Devices, Vol. 38, No. 10, October 1991.
#1/d	DB	Marcus, R. B., T. S. Ravi, T. Gmitter, H. H. Busta, J. T. Niccum, K. K. Chin, and D. Liu, "Atomically Sharp Silicon and Metal Field Emitters," IEEE Transactions on Electron Devices, Vol. 38, No. 10, October 1991.
20	DC	Wolf, Stanley, SILICON PROCESSING FOR THE VLSI ERA, Volume 2: Process Integration, Lattice Press, Sunset Beach, California, pp. 20-27, 1990.
The	DD	Jones, G. W. and C. T. Sune, "Fabrication of Silicon Point, Wedge, and Trench FEAs", Technical Digest of IVMC 91, Nagahama 1991, pp. 34-35.
and	DD	Millman, J. et al., <u>Integrated Electronics</u> : Analog and Digital Circuits and System, pp. 204-205, 1972 (no month).

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

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(37 CFR 1.98(b))	(use several sheets if necessary)	1/12/01		

U.S. PATENT DOCUMENTS

Examiner		Document				
Initial		Number	Date	Name	Class	Subclass
1/10	AT	4,943,343	07/24/90	Bardai et al.	156	643
IB	AU	4,874,981	10/17/89	Spindt	313	309
19.79°	AV	4,766,340	08/23/88	van der Mast et al.	313	366
-BB	AW-	-4,718,973	01/12/88	Abraham et al.	156	628
N P	AX	4,420,872	12/20/83	Solo de Zaldivar	029	571
113	AY	4,400,866	08/30/83	Yeh et al.	029	571
\mathcal{BB}	AZ	4,301,429	11/17/81	Goldman et al	333	022R
1 NA	BA	3,970,887	07/20/76	Smith et al.	313	309
b 6	BB	3,894,332	07/15/75	Nathanson et al.	029	578
BB.	BC	3,875,442	04/01/75	Wasa et al.	313	193
N.R.	BD	3,816,194	06/11/74	Kroger et al.	156	003
BB	BE	3,812,559	05/28/74	Spindt et al.	029	25.18
13	BF	3,755,704	08/28/73	Spindt et al.	313	309
12	BG	3,665,241	05/23/72	Spindt et al.	313	351
28/85						
Bbi						

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Examiner	Document			Translatio			
Initial	Number	Date	Country	Class	Subclass	Yes	No

Initial		OTHER ART (including author, title, date, pertinent pages, etc.)	
	BA		
	BB		
	BC		

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